

Exhibit J

Comparison of Java (J2SE 1.5) and Android versions of PolicyNodeImpl.java

PolicyNodeImpl.java (Java version) [comments removed and spacing adjusted for comparison]	PolicyNodeImpl.java (Android version) [spacing adjusted for comparison]
<pre> final class PolicyNodeImpl implements PolicyNode { private static final String ANY_POLICY = "2.5.29.32.0"; private PolicyNodeImpl mParent; private HashSet mChildren; private String mValidPolicy; private HashSet mQualifierSet; private boolean mCriticalityIndicator; private HashSet mExpectedPolicySet; private boolean mOriginalExpectedPolicySet; private int mDepth; private boolean isImmutable = false; PolicyNodeImpl(PolicyNodeImpl parent, String validPolicy, Set qualifierSet, boolean criticalityIndicator, Set expectedPolicySet, boolean generatedByPolicyMapping) { mParent = parent; mChildren = new HashSet(); if (validPolicy != null) mValidPolicy = validPolicy; else mValidPolicy = ""; if (qualifierSet != null) mQualifierSet = new HashSet(qualifierSet); else mQualifierSet = new HashSet(); mCriticalityIndicator = criticalityIndicator; if (expectedPolicySet != null) mExpectedPolicySet = new HashSet(expectedPolicySet); else mExpectedPolicySet = new HashSet(); mOriginalExpectedPolicySet = !generatedByPolicyMapping; if (mParent != null) { mDepth = mParent.getDepth() + 1; mParent.addChild(this); } else { mDepth = 0; } } } </pre>	<pre> public class PolicyNodeImpl implements PolicyNode { private static final String ANY_POLICY = "2.5.29.32.0"; private PolicyNodeImpl mParent; private HashSet mChildren; private String mValidPolicy; private HashSet mQualifierSet; private boolean mCriticalityIndicator; private HashSet mExpectedPolicySet; private boolean mOriginalExpectedPolicySet; private int mDepth; private boolean isImmutable; public PolicyNodeImpl(PolicyNodeImpl policyNodeImpl, String s, Set set, boolean flag, Set set1, boolean flag1) { isImmutable = false; mParent = policyNodeImpl; mChildren = new HashSet(); if (s != null) { mValidPolicy = s; } else { mValidPolicy = ""; } if (set != null) { mQualifierSet = new HashSet(set); } else { mQualifierSet = new HashSet(); } mCriticalityIndicator = flag; if (set1 != null) { mExpectedPolicySet = new HashSet(set1); } else { mExpectedPolicySet = new HashSet(); } mOriginalExpectedPolicySet = !flag1; if (mParent != null) { mDepth = mParent.getDepth() + 1; mParent.addChild(this); } else { mDepth = 0; } } } </pre>

Comparison of Java (J2SE 1.5) and Android versions of PolicyNodeImpl.java

PolicyNodeImpl.java (Java version) [comments removed and spacing adjusted for comparison]	PolicyNodeImpl.java (Android version) [spacing adjusted for comparison]
<pre> PolicyNodeImpl(PolicyNodeImpl parent, PolicyNodeImpl node) { this(parent, node.mValidPolicy, node.mQualifierSet, node.mCriticalityIndicator, node.mExpectedPolicySet, false); } public PolicyNode getParent() { return mParent; } public Iterator<PolicyNodeImpl> getChildren() { return Collections.unmodifiableSet(mChildren).iterator(); } public int getDepth() { return mDepth; } public String getValidPolicy() { return mValidPolicy; } public Set<PolicyQualifierInfo> getPolicyQualifiers() { return Collections.unmodifiableSet(mQualifierSet); } public Set<String> getExpectedPolicies() { return Collections.unmodifiableSet(mExpectedPolicySet); } public boolean isCritical() { return mCriticalityIndicator; } public String toString() { StringBuffer buffer = new StringBuffer(this.asString()); Iterator it = getChildren(); while (it.hasNext()) { buffer.append((PolicyNodeImpl)it.next()); } return buffer.toString(); } </pre>	<pre> PolicyNodeImpl(PolicyNodeImpl polycnodeimpl, PolicyNodeImpl polycnodeimpl1) { this(polycnodeimpl, polycnodeimpl1.mValidPolicy, ((Set) (polycnodeimpl1.mQualifierSet)), polycnodeimpl1.mCriticalityIndicator, ((Set) (polycnodeimpl1.mExpectedPolicySet)), false); } public PolicyNode getParent() { return mParent; } public Iterator getChildren() { return Collections.unmodifiableSet(mChildren).iterator(); } public int getDepth() { return mDepth; } public String getValidPolicy() { return mValidPolicy; } public Set getPolicyQualifiers() { return Collections.unmodifiableSet(mQualifierSet); } public Set getExpectedPolicies() { return Collections.unmodifiableSet(mExpectedPolicySet); } public boolean isCritical() { return mCriticalityIndicator; } public String toString() { StringBuffer stringbuffer = new StringBuffer(asString()); for(Iterator iterator = getChildren(); iterator.hasNext(); stringbuffer.append((PolicyNodeImpl)iterator.next())); return stringbuffer.toString(); } </pre>

Comparison of Java (J2SE 1.5) and Android versions of PolicyNodeImpl.java

PolicyNodeImpl.java (Java version) [comments removed and spacing adjusted for comparison]	PolicyNodeImpl.java (Android version) [spacing adjusted for comparison]
<pre> boolean isImmutable() { return isImmutable; } void setImmutable() { if (isImmutable) return; Iterator it = mChildren.iterator(); while (it.hasNext()) { PolicyNodeImpl node = (PolicyNodeImpl) it.next(); node.setImmutable(); } isImmutable = true; } private void addChild(PolicyNodeImpl child) { if (isImmutable) { throw new IllegalStateException("PolicyNode is immutable"); } mChildren.add(child); } void addExpectedPolicy(String expectedPolicy) { if (isImmutable) { throw new IllegalStateException("PolicyNode is immutable"); } if (mOriginalExpectedPolicySet) { mExpectedPolicySet.clear(); mOriginalExpectedPolicySet = false; } mExpectedPolicySet.add(expectedPolicy); } void prune(int depth) { if (isImmutable) throw new IllegalStateException("PolicyNode is immutable"); if (mChildren.size() == 0) return; Iterator it = mChildren.iterator(); while (it.hasNext()) { PolicyNodeImpl node = (PolicyNodeImpl) it.next(); node.prune(depth); if ((node.mChildren.size() == 0) && (depth > mDepth + 1)) it.remove(); } } </pre>	<pre> boolean isImmutable() { return isImmutable; } void setImmutable() { if (isImmutable) return; PolicyNodeImpl policyNodeImpl; for (Iterator iterator = mChildren.iterator(); iterator.hasNext(); policyNodeImpl.setImmutable()) policyNodeImpl = (PolicyNodeImpl) iterator.next(); isImmutable = true; } private void addChild(PolicyNodeImpl policyNodeImpl) { if (isImmutable) { throw new IllegalStateException("PolicyNode is immutable"); } else { mChildren.add(policyNodeImpl); return; } } void addExpectedPolicy(String s) { if (isImmutable) throw new IllegalStateException("PolicyNode is immutable"); if (mOriginalExpectedPolicySet) { mExpectedPolicySet.clear(); mOriginalExpectedPolicySet = false; } mExpectedPolicySet.add(s); } void prune(int i) { if (isImmutable) throw new IllegalStateException("PolicyNode is immutable"); if (mChildren.size() == 0) return; Iterator iterator = mChildren.iterator(); do { if (!iterator.hasNext()) break; PolicyNodeImpl policyNodeImpl = (PolicyNodeImpl) iterator.next(); policyNodeImpl.prune(i); if (policyNodeImpl.mChildren.size() == 0 && i > mDepth + 1) iterator.remove(); } while (true); } </pre>

Comparison of Java (J2SE 1.5) and Android versions of PolicyNodeImpl.java

PolicyNodeImpl.java (Java version) [comments removed and spacing adjusted for comparison]	PolicyNodeImpl.java (Android version) [spacing adjusted for comparison]
<pre> void deleteChild(PolicyNode childNode) { if (!isImmutable) { throw new IllegalStateException("PolicyNode is immutable"); } mChildren.remove(childNode); } PolicyNodeImpl copyTree() { return copyTree(null); } private PolicyNodeImpl copyTree(PolicyNodeImpl parent) { PolicyNodeImpl newNode = new PolicyNodeImpl(parent, this); Iterator it = mChildren.iterator(); while (it.hasNext()) { PolicyNodeImpl node = (PolicyNodeImpl) it.next(); node.copyTree(newNode); } return newNode; } Set getPolicyNodes(int depth) { Set set = new HashSet(); getPolicyNodes(depth, set); return set; } private void getPolicyNodes(int depth, Set set) { if (mDepth == depth) { set.add(this); } else { Iterator it = mChildren.iterator(); while (it.hasNext()) { PolicyNodeImpl node = (PolicyNodeImpl) it.next(); node.getPolicyNodes(depth, set); } } } </pre>	<pre> void deleteChild(PolicyNode polycynode) { if (!isImmutable) { throw new IllegalStateException("PolicyNode is immutable"); } else { mChildren.remove(polycynode); return; } } PolicyNodeImpl copyTree() { return copyTree(null); } private PolicyNodeImpl copyTree(PolicyNodeImpl polycynodeimpl) { PolicyNodeImpl polycynodeimpl1 = new PolicyNodeImpl(polycynodeimpl, this); PolicyNodeImpl polycynodeimpl2; for(Iterator iterator = mChildren.iterator(); iterator.hasNext(); polycynodeimpl2.copyTree(polycynodeimpl1)) polycynodeimpl2 = (PolicyNodeImpl)iterator.next(); return polycynodeimpl1; } Set getPolicyNodes(int i) { HashSet hashset = new HashSet(); getPolicyNodes(i, ((Set) (hashset))); return hashset; } private void getPolicyNodes(int i, Set set) { if(mDepth == i) { set.add(this); } else { PolicyNodeImpl polycynodeimpl; for(Iterator iterator = mChildren.iterator(); iterator.hasNext(); polycynodeimpl.getPolicyNodes(i, set)) polycynodeimpl = (PolicyNodeImpl)iterator.next(); } } </pre>

Comparison of Java (J2SE 1.5) and Android versions of PolicyNodeImpl.java

PolicyNodeImpl.java (Java version) [comments removed and spacing adjusted for comparison]	PolicyNodeImpl.java (Android version) [spacing adjusted for comparison]
<pre> Set getPolicyNodesExpected(int depth, String expectedOID, boolean matchAny) { if (expectedOID.equals(ANY_POLICY)) { return getPolicyNodes(depth); } else { return getPolicyNodesExpectedHelper(depth, expectedOID, matchAny); } } private Set getPolicyNodesExpectedHelper(int depth, String expectedOID, boolean matchAny) { HashSet set = new HashSet(); if (mDepth < depth) { Iterator it = mChildren.iterator(); while (it.hasNext()) { PolicyNodeImpl node = (PolicyNodeImpl) it.next(); set.addAll(node.getPolicyNodesExpectedHelper(depth, expectedOID, matchAny)); } } else { if (matchAny) { if (mExpectedPolicySet.contains(ANY_POLICY)) set.add(this); } else { if (mExpectedPolicySet.contains(expectedOID)) set.add(this); } } return set; } Set getPolicyNodesValid(int depth, String validOID) { HashSet set = new HashSet(); if (mDepth < depth) { Iterator it = mChildren.iterator(); while (it.hasNext()) { PolicyNodeImpl node = (PolicyNodeImpl) it.next(); set.addAll(node.getPolicyNodesValid(depth, validOID)); } } else { if (mValidPolicy.equals(validOID)) set.add(this); } return set; } </pre>	<pre> Set getPolicyNodesExpected(int i, String s, boolean flag) { if(s.equals("2.5.29.32.0")) return getPolicyNodes(i); else return getPolicyNodesExpectedHelper(i, s, flag); } private Set getPolicyNodesExpectedHelper(int i, String s, boolean flag) { HashSet hashset = new HashSet(); if(mDepth < i) { PolicyNodeImpl polycnodeimpl; for(Iterator iterator = mChildren.iterator(); iterator.hasNext(); hashset.addAll(polycnodeimpl.getPolicyNodesExpectedHelper(i, s, flag))) polycnodeimpl = (PolicyNodeImpl)iterator.next(); } } else if(flag) { if(mExpectedPolicySet.contains("2.5.29.32.0")) hashset.add(this); } else if(mExpectedPolicySet.contains(s)) { hashset.add(this); } return hashset; } Set getPolicyNodesValid(int i, String s) { HashSet hashset = new HashSet(); if(mDepth < i) { PolicyNodeImpl polycnodeimpl; for(Iterator iterator = mChildren.iterator(); iterator.hasNext(); hashset.addAll(polycnodeimpl.getPolicyNodesValid(i, s))) polycnodeimpl = (PolicyNodeImpl)iterator.next(); } } else if(mValidPolicy.equals(s)) { hashset.add(this); } return hashset; } </pre>

Comparison of Java (J2SE 1.5) and Android versions of PolicyNodeImpl.java

PolicyNodeImpl.java (Java version) [comments removed and spacing adjusted for comparison]	PolicyNodeImpl.java (Android version) [spacing adjusted for comparison]
<pre> private static String policyToString(String oid) { if (oid.equals(ANY_POLICY)) { return "anyPolicy"; } else { return oid; } } String asString() { if (mParent == null) { return "anyPolicy ROOT\n"; } else { StringBuffer sb = new StringBuffer(); for (int i = 0, n = getDepth(); i < n; i++) { sb.append(" "); } sb.append(policyToString(getValidPolicy())); sb.append(" CRIT: "); sb.append(isCritical()); sb.append(" EP: "); for (Iterator t = getExpectedPolicies().iterator(); t.hasNext();) { String policy = (String)t.next(); sb.append(policyToString(policy)); sb.append(" "); } sb.append("("); sb.append(getDepth()); sb.append(")\n"); return sb.toString(); } } </pre>	<pre> private static String policyToString(String s) { if(s.equals("2.5.29.32.0")) { return "anyPolicy"; } else { return s; } } String asString() { if(mParent == null) return "anyPolicy ROOT\n"; StringBuffer stringbuffer = new StringBuffer(); int i = 0; for(int j = getDepth(); i < j; i++) stringbuffer.append(" "); stringbuffer.append(policyToString(getValidPolicy())); stringbuffer.append(" CRIT: "); stringbuffer.append(isCritical()); stringbuffer.append(" EP: "); for(Iterator iterator = getExpectedPolicies().iterator(); iterator.hasNext(); stringbuffer.append(" ")) { String s = (String)iterator.next(); stringbuffer.append(policyToString(s)); } stringbuffer.append("("); stringbuffer.append(getDepth()); stringbuffer.append(")\n"); return stringbuffer.toString(); } </pre>